FIGURE 1A

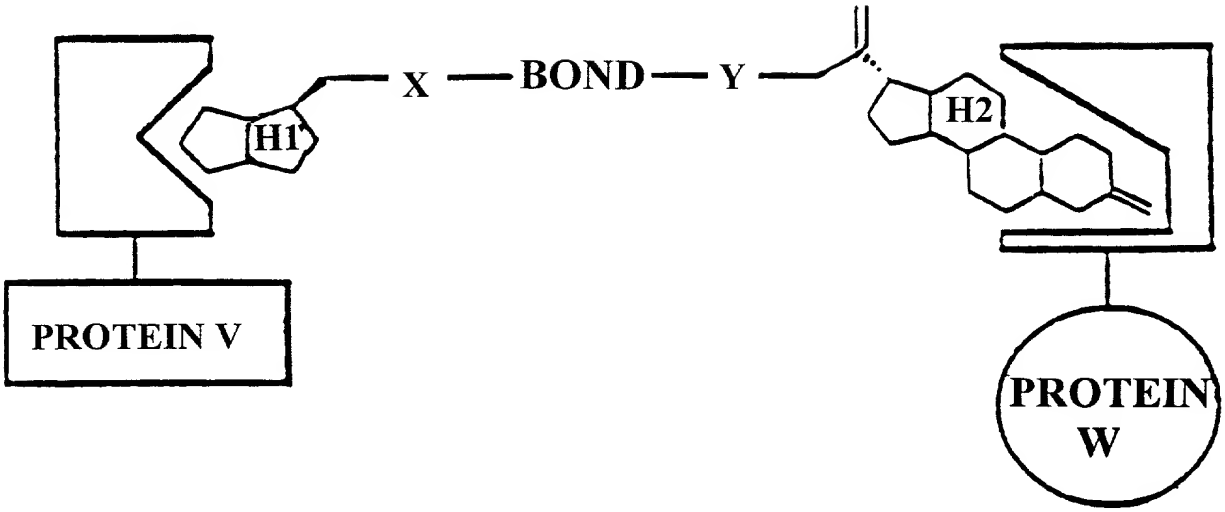


FIGURE 1B

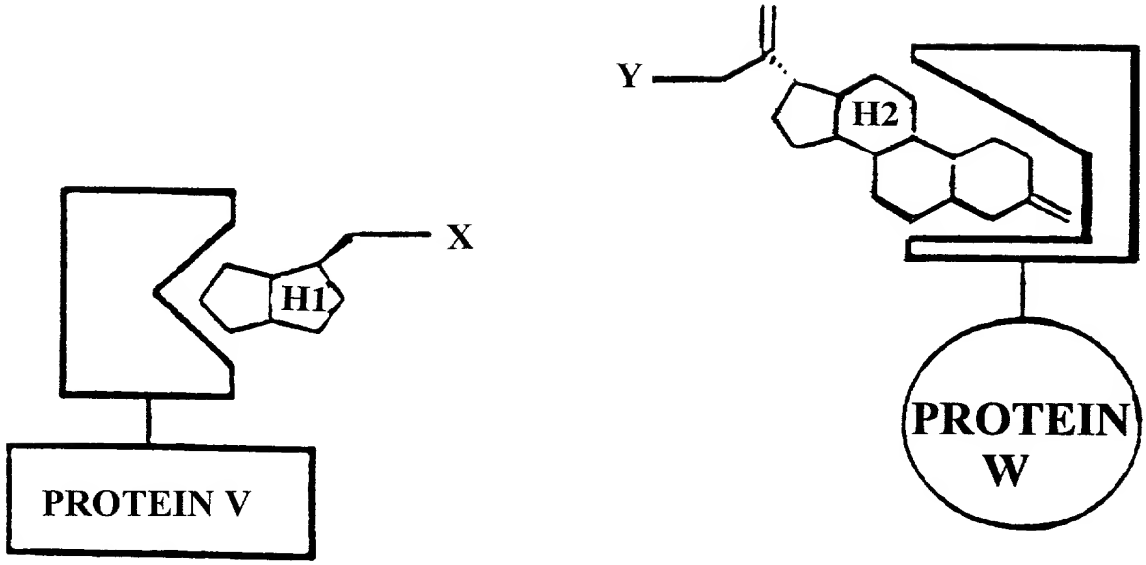


FIGURE 2

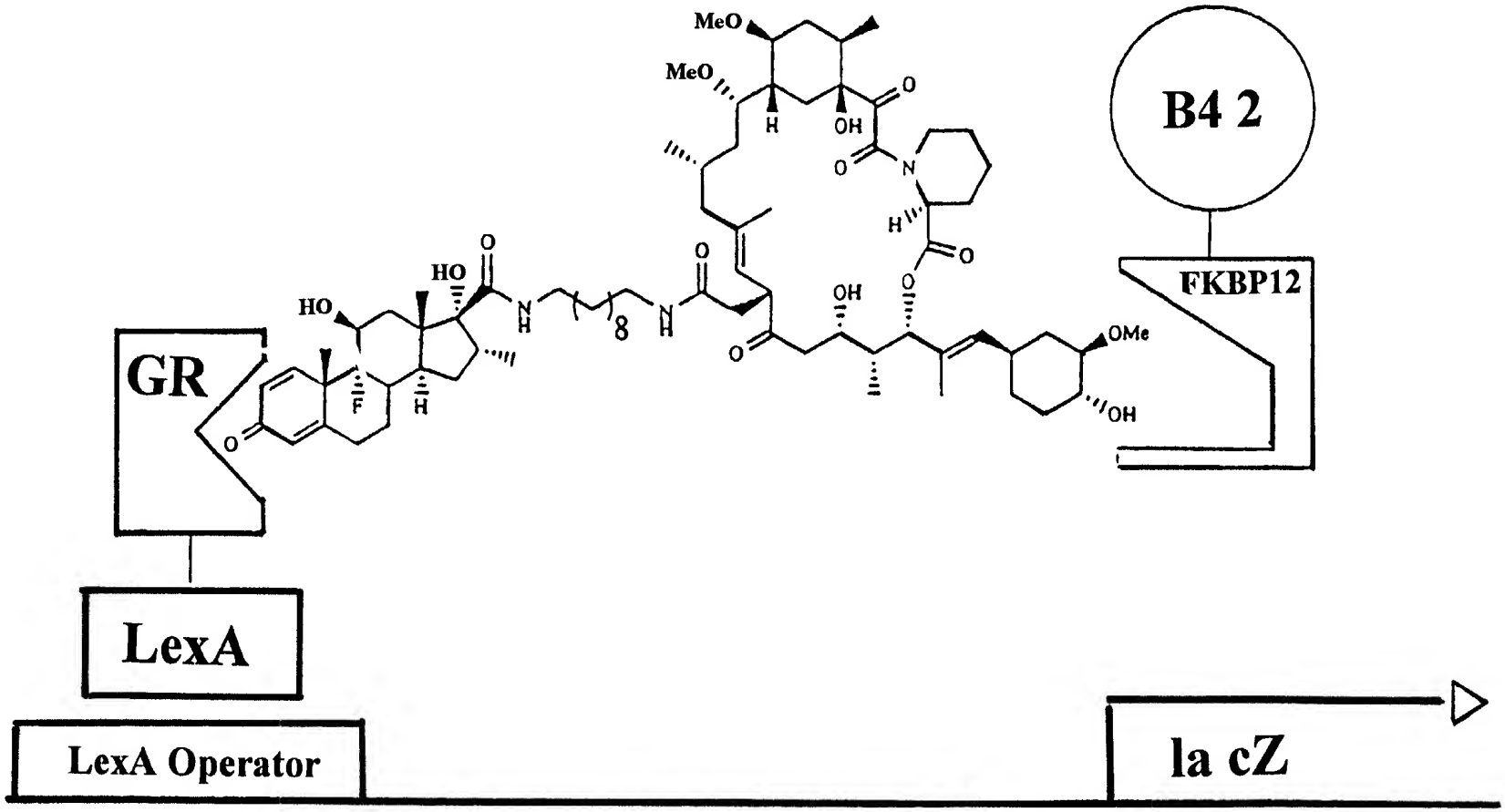

MeO
MeO
H
OH
O
N
O
O
B4 2
FKBP12
HO
HO
O
N
H
8
N
H
O
O
OH
O
OMe
OH
GR
F
H
O
LexA
LexA Operator
la cZ

FIGURE 3

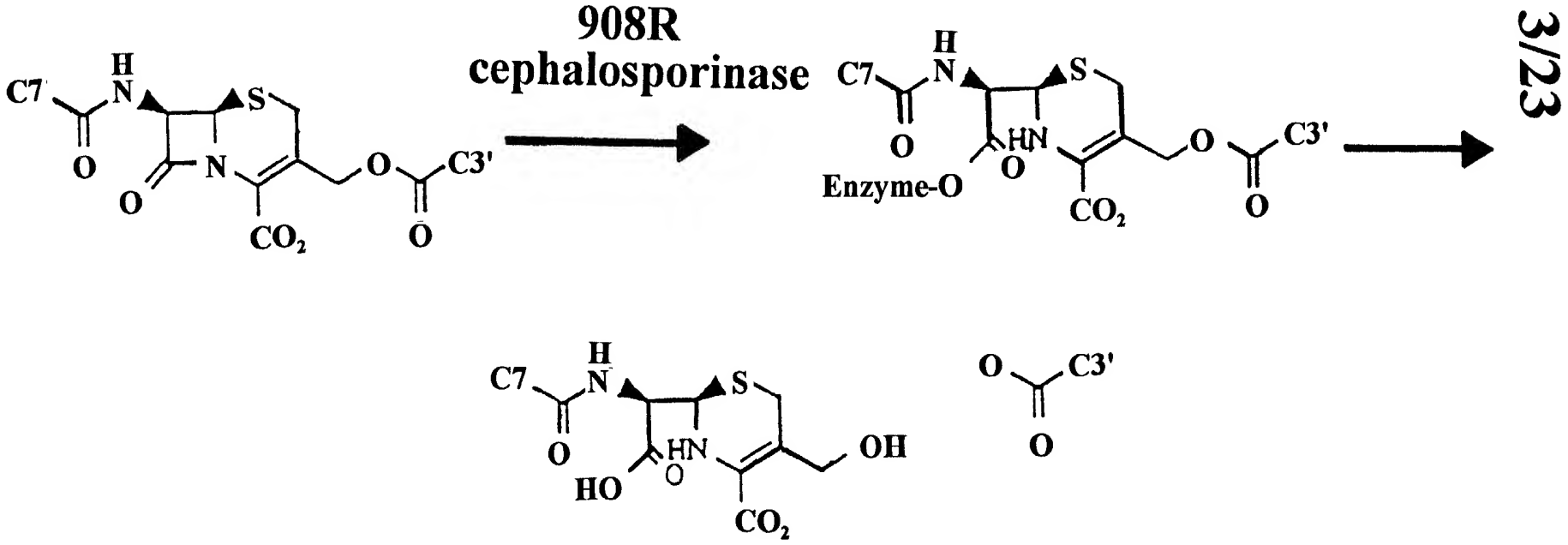


FIGURE 4

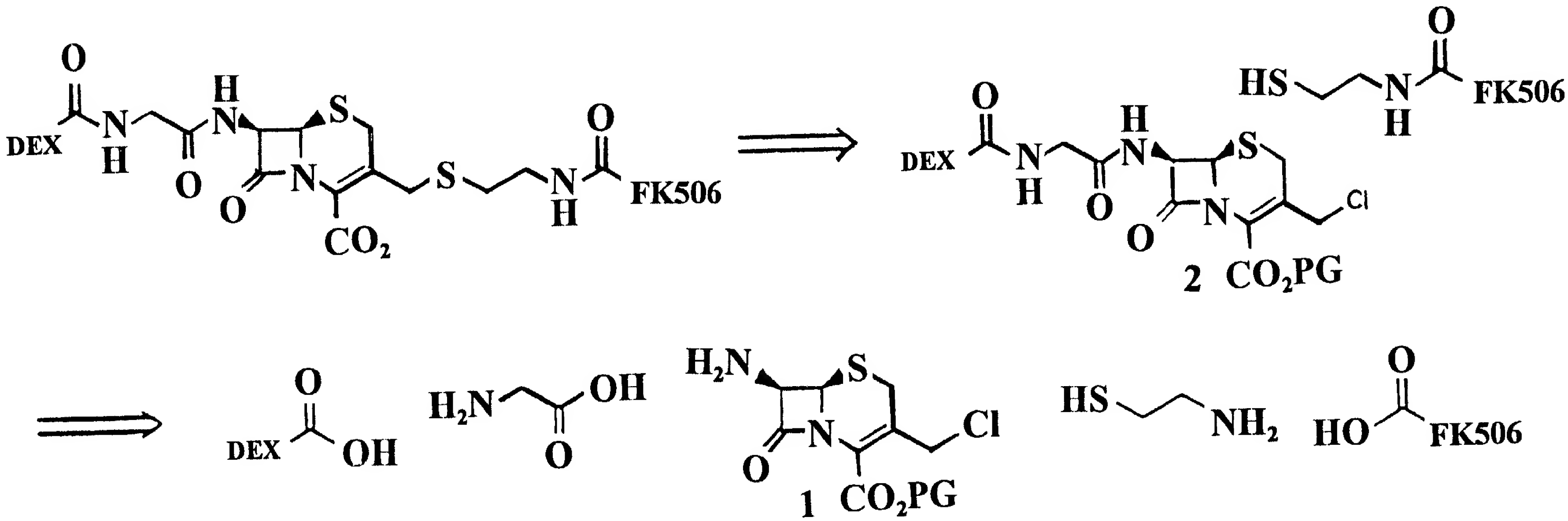


FIGURE 5A

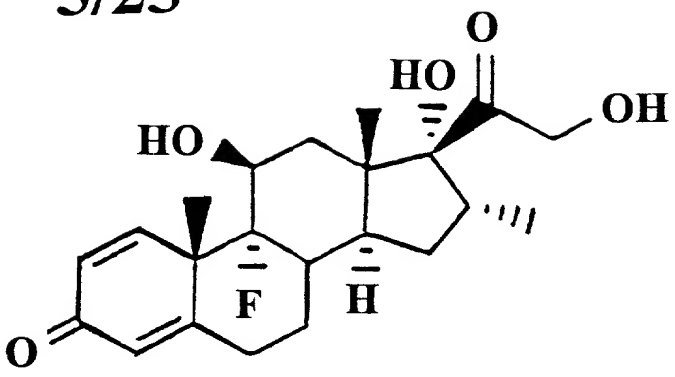


FIGURE 5B

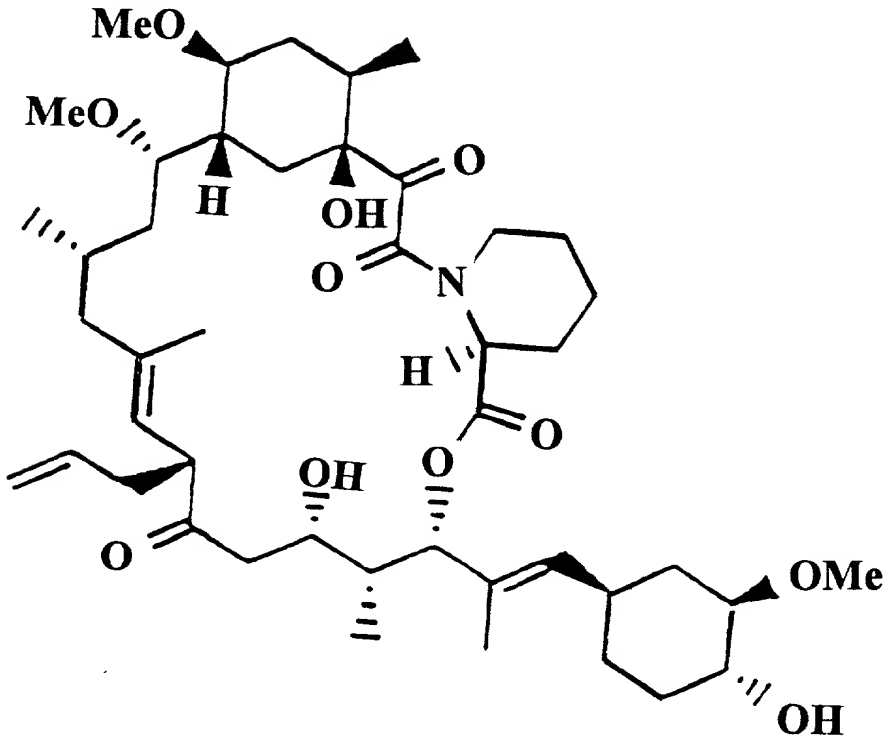


FIGURE 5C

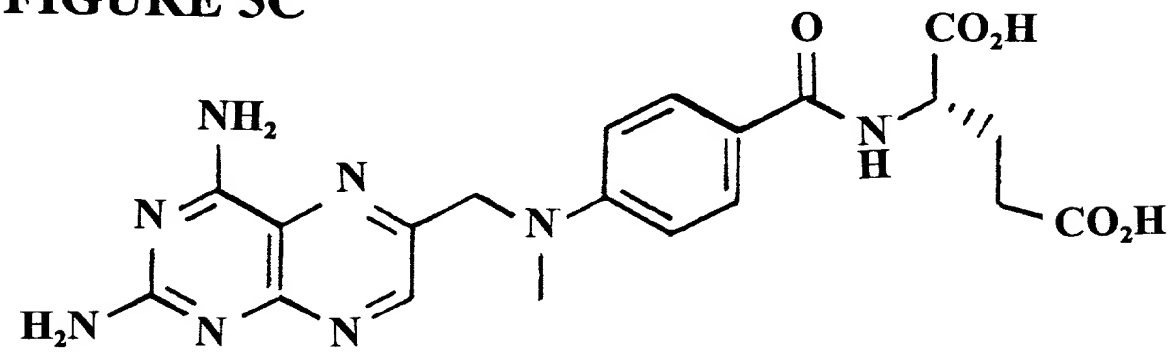


FIGURE 6

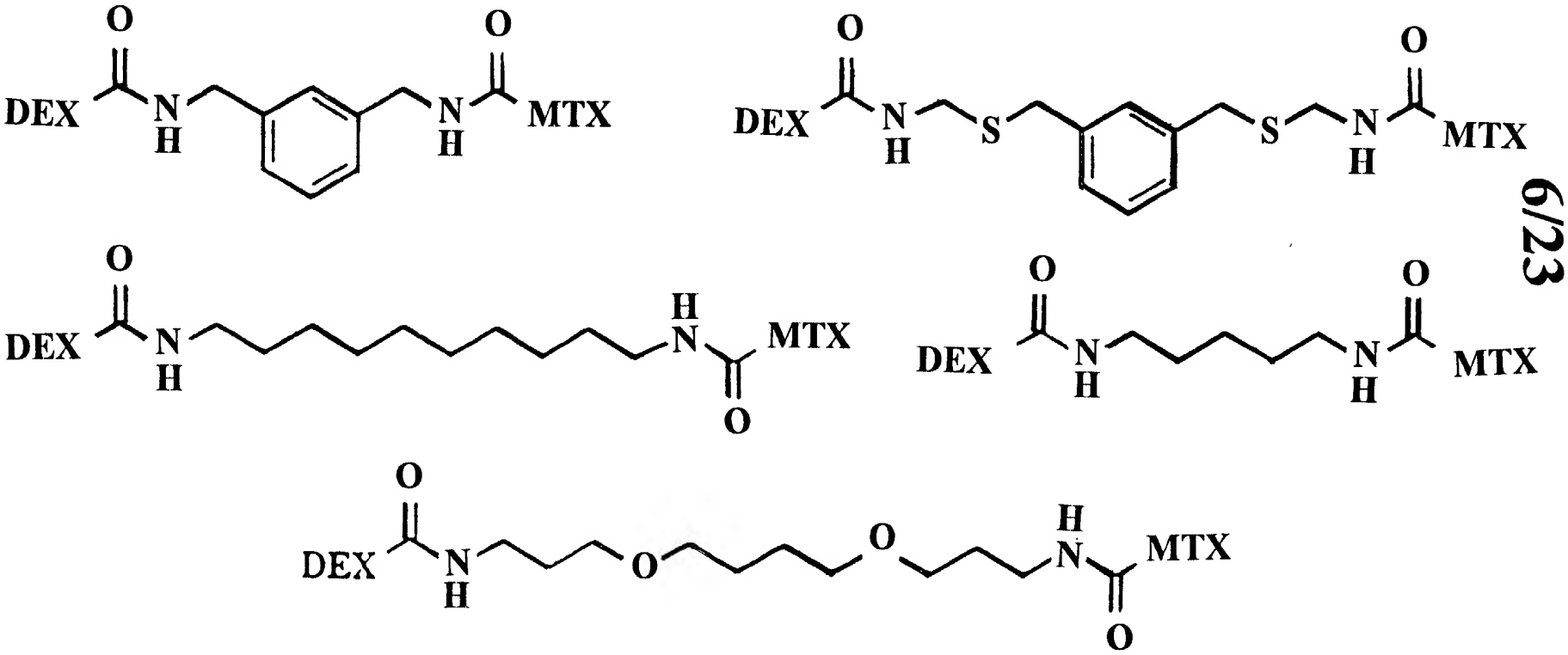


FIGURE 7A

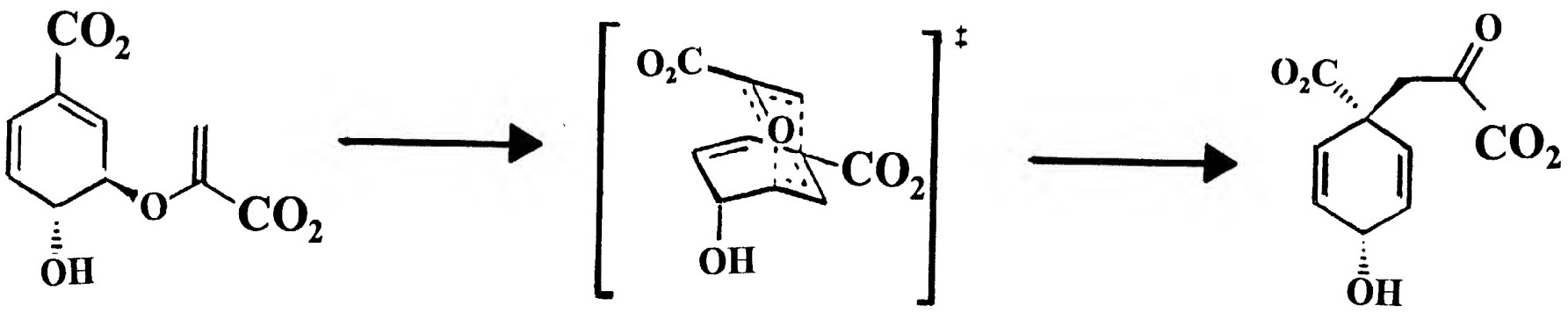


FIGURE 7B

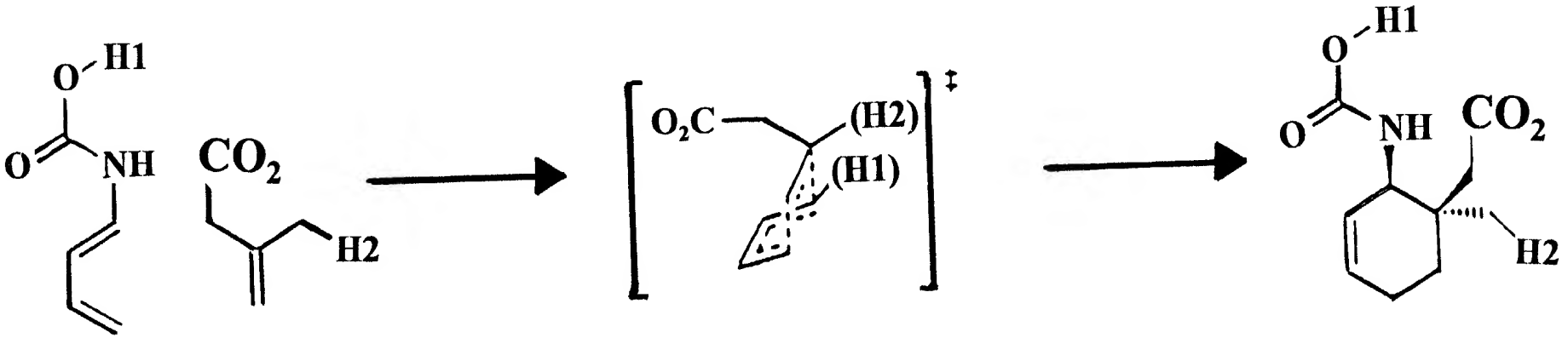


FIGURE 8A

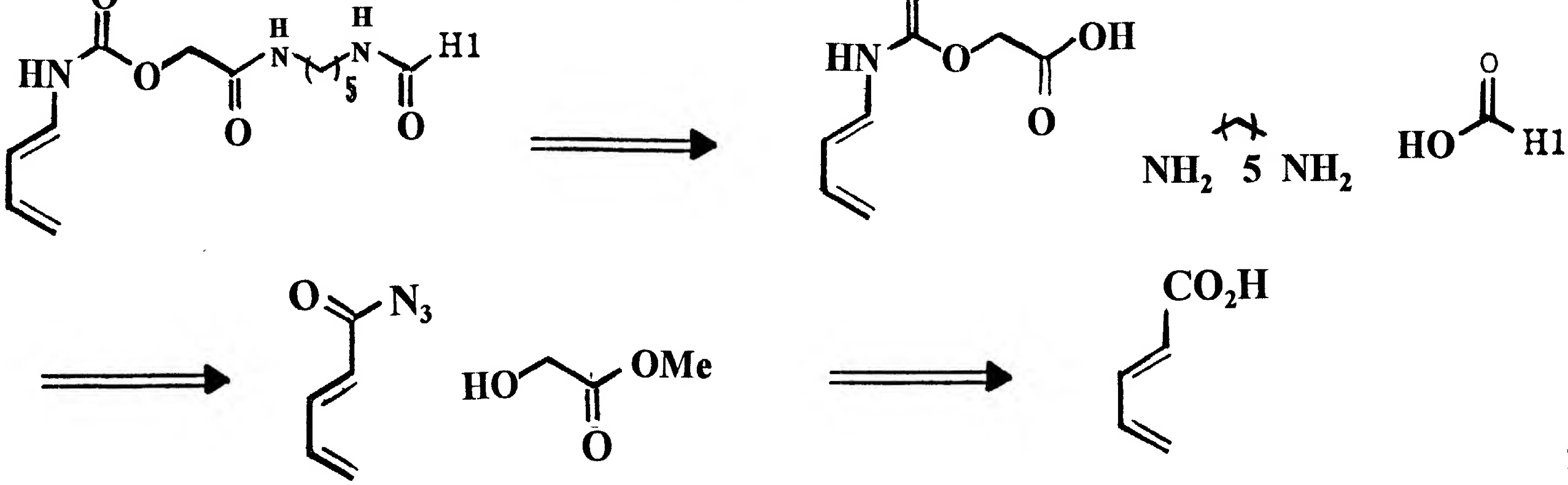


FIGURE 8B

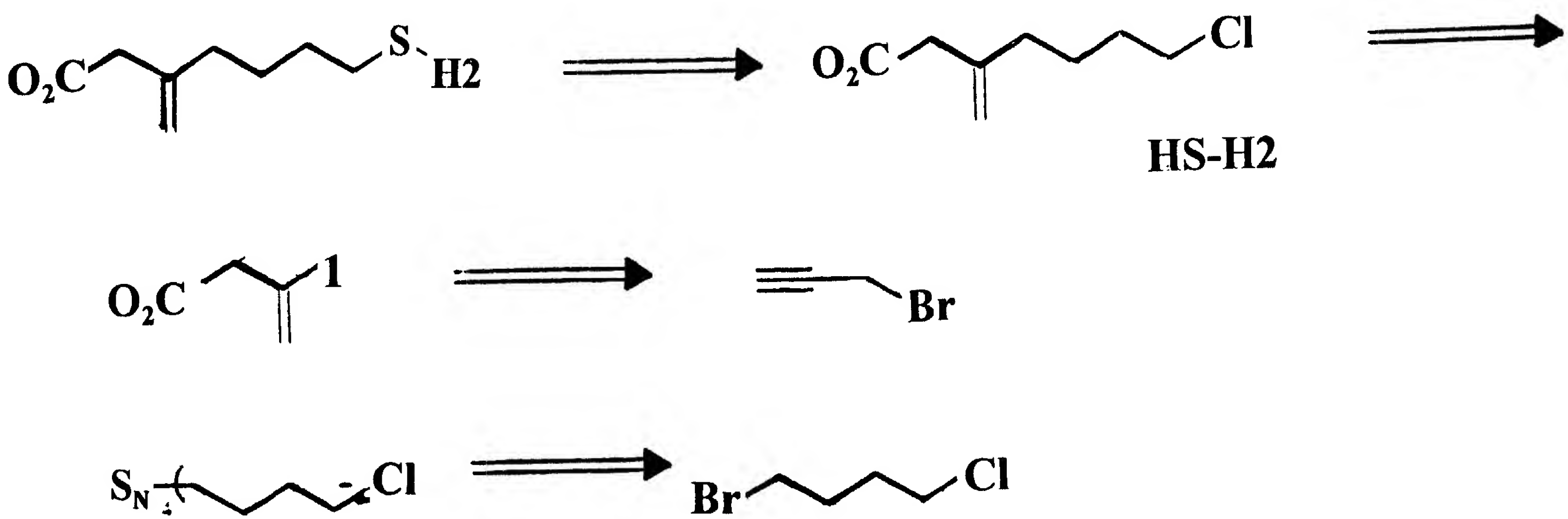


FIGURE 9

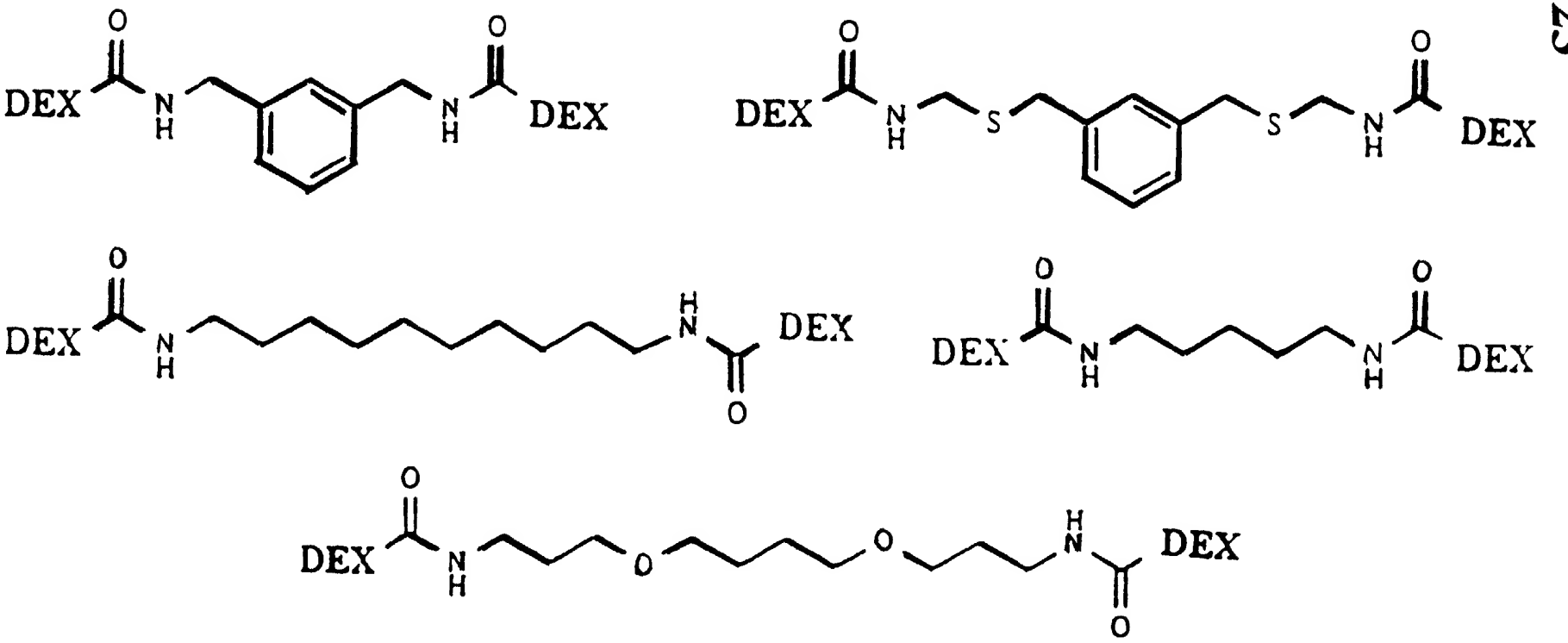


FIGURE 10

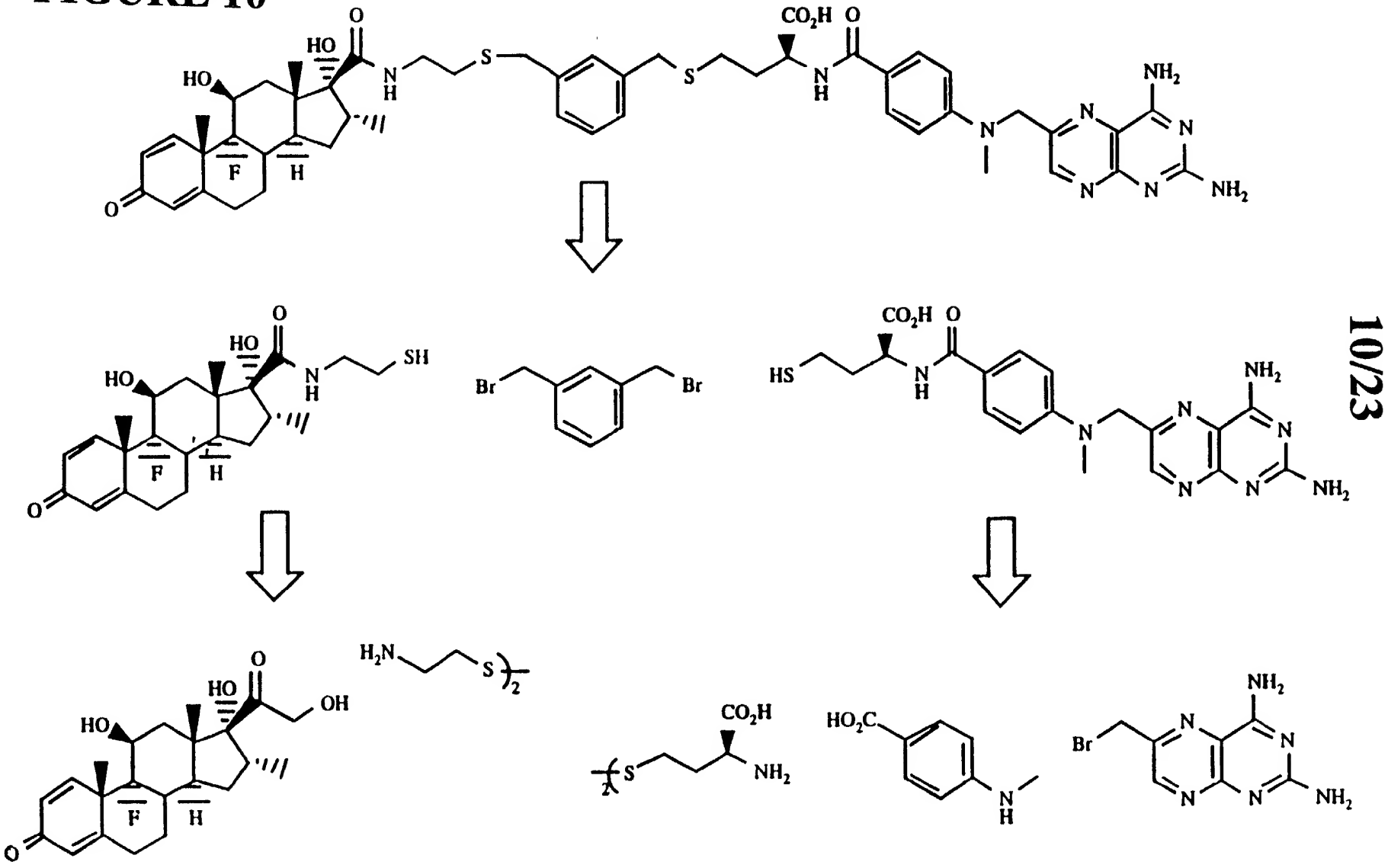
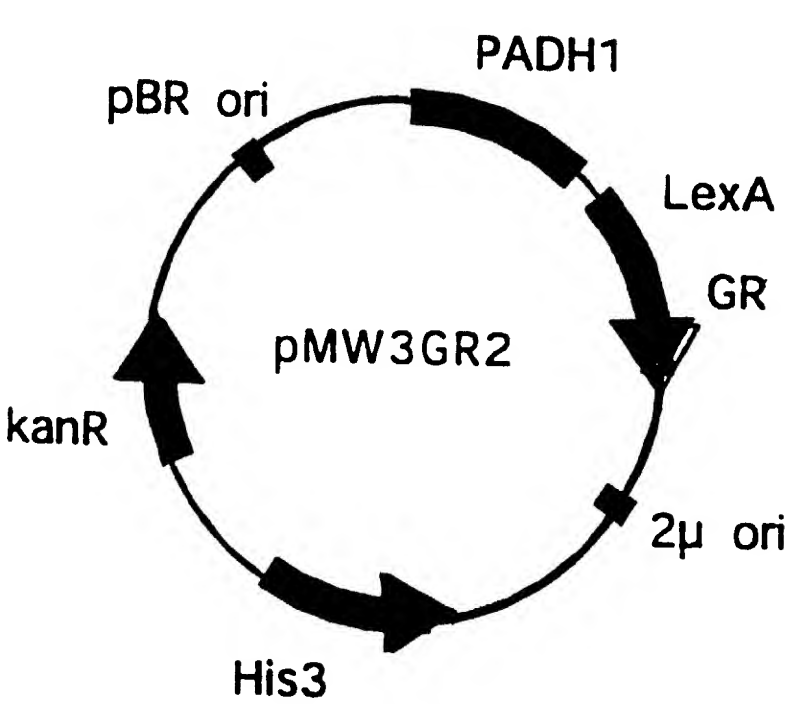


FIGURE 11



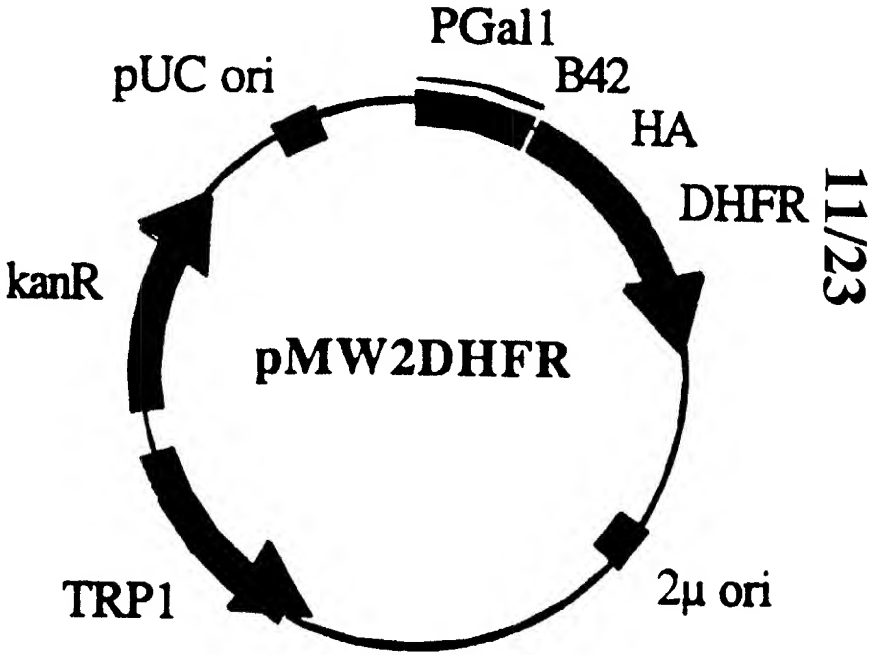


FIGURE 12

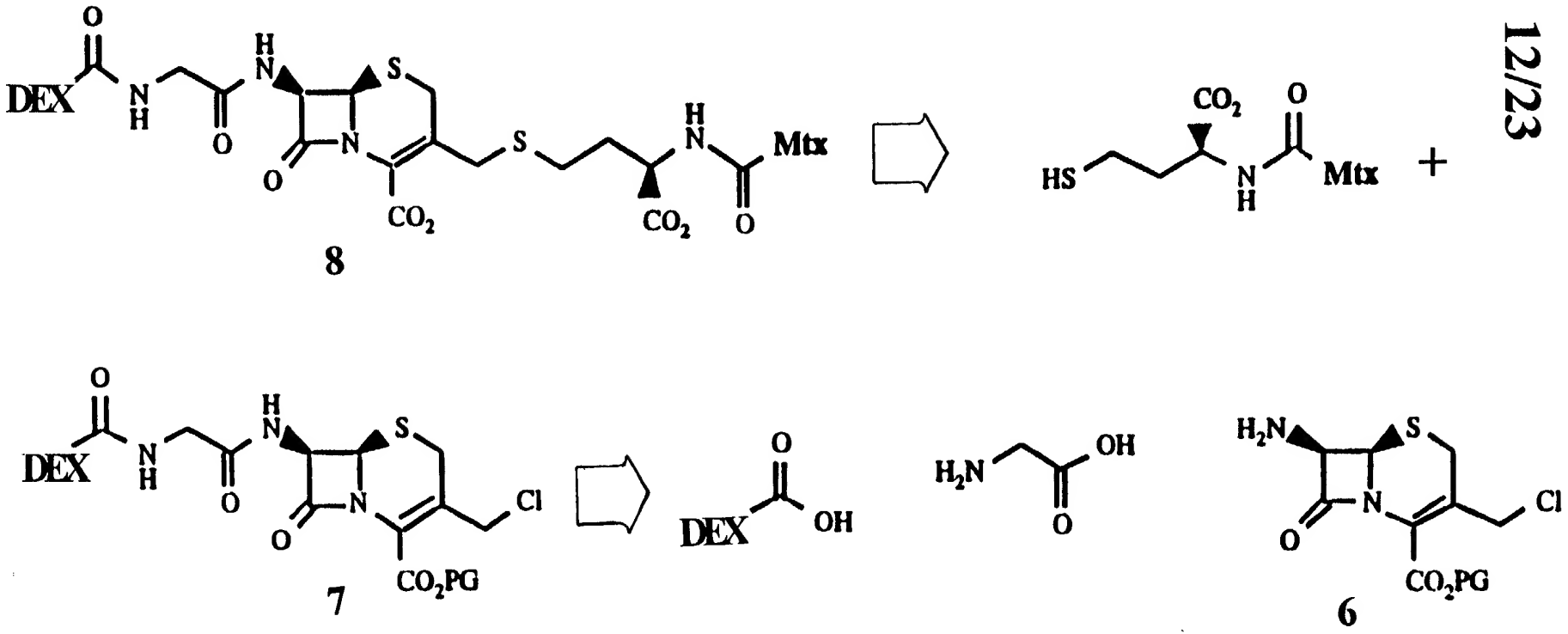


FIGURE 13

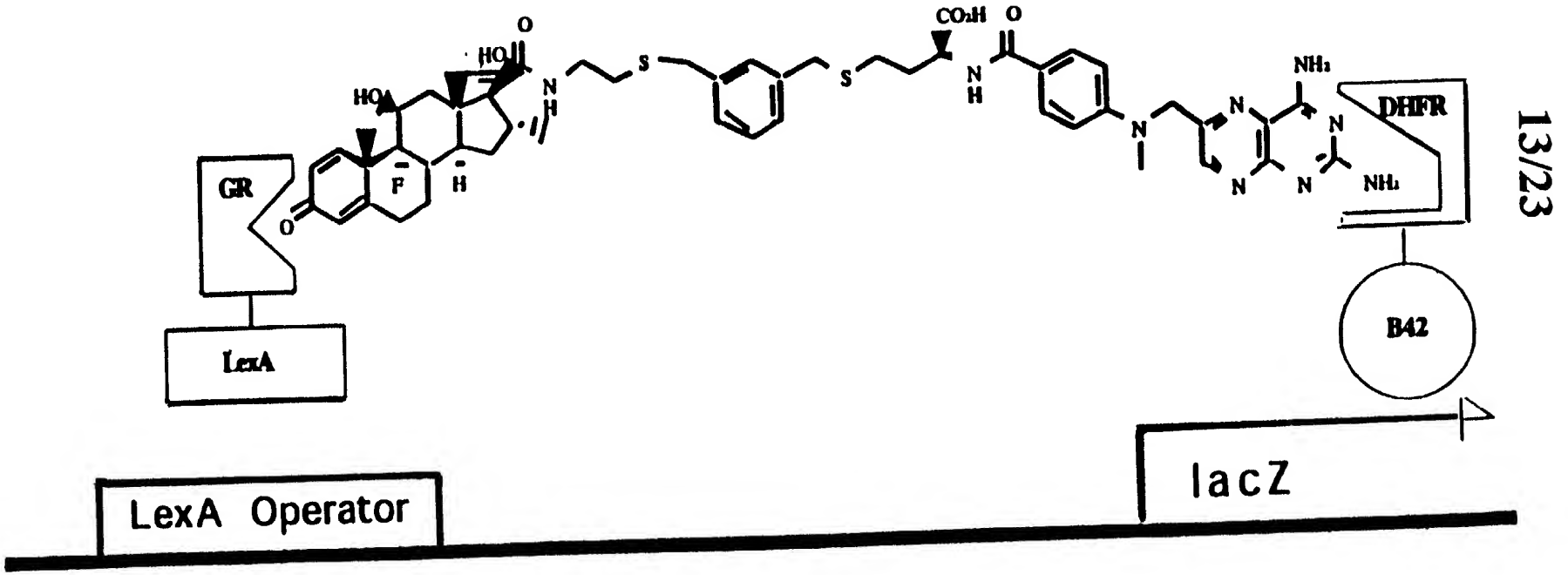


FIGURE 14

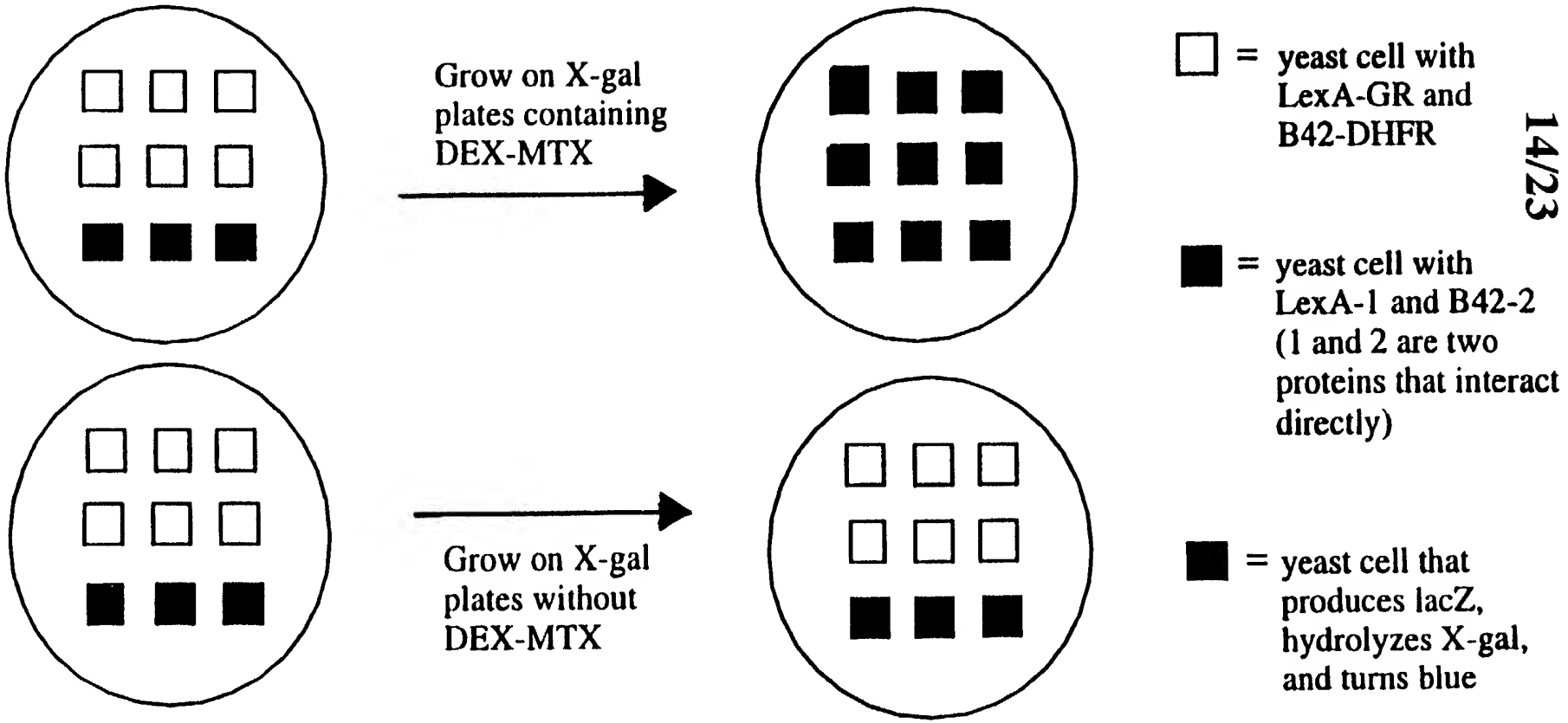


FIGURE 15A FIGURE 15B FIGURE 15C

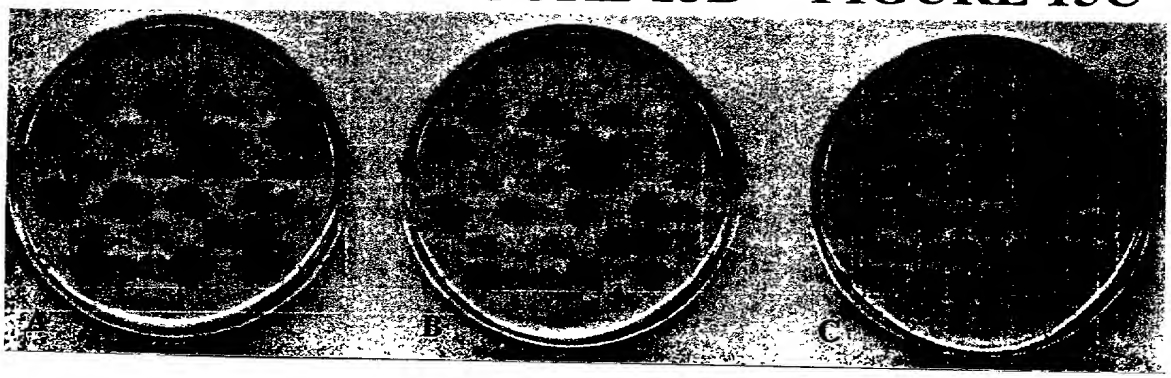


FIGURE 16A

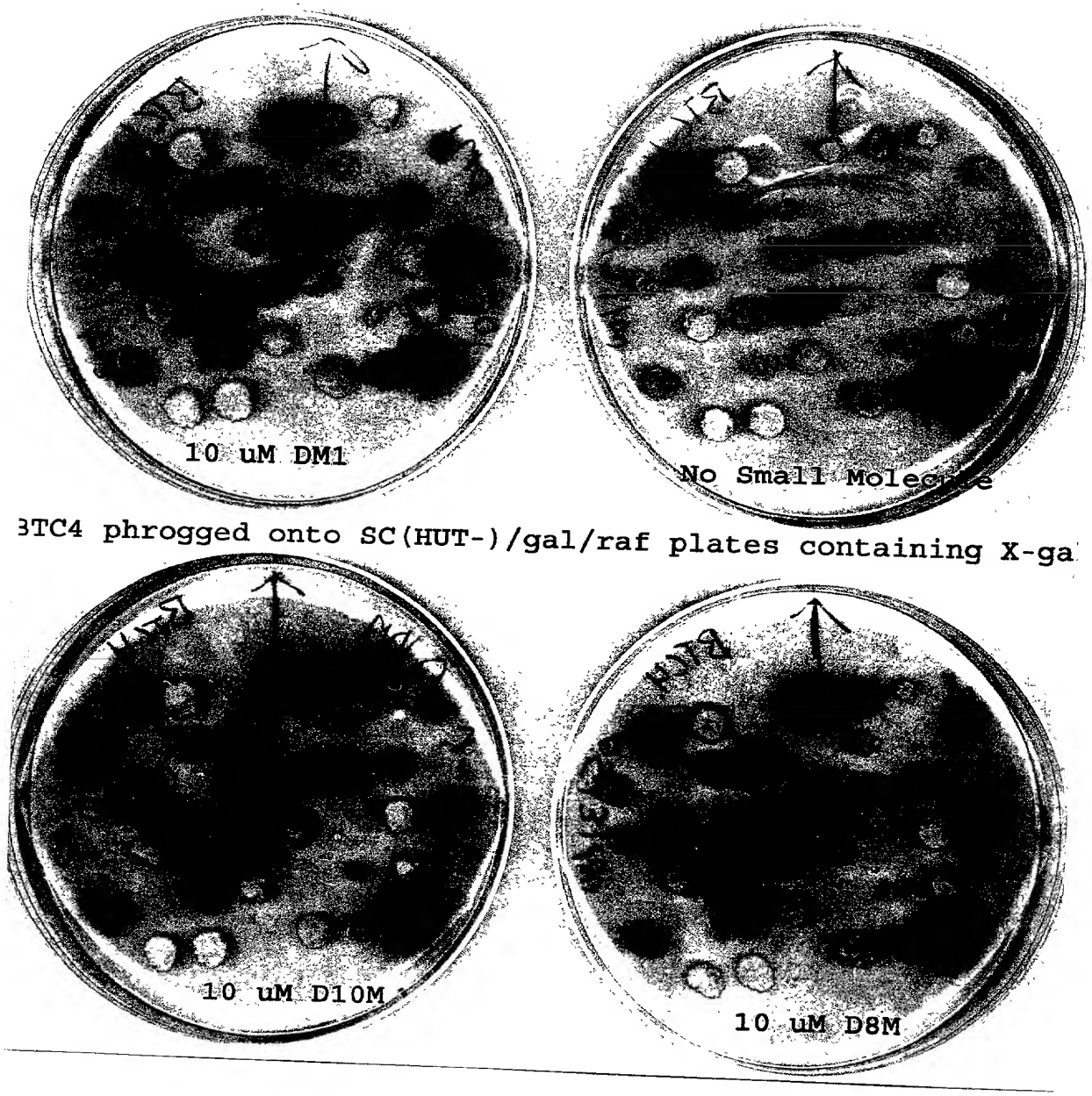

10 uM DM1
No Small Molecule
3TC4 phrogged onto SC(HUT-)/gal/raf plates containing X-ga
10 uM D10M
10 uM D8M

FIGURE 16B

PLATE NAME: BTC4 **PURPOSE: DXM SCREENING**

	V134Y	V375Y		V493Y	V513Y	V496Y	
V495Y		V514Y	V508Y		V507Y		V517Y
V518Y	V501Y		V504Y	V494Y	V497Y	V510Y	
	V512Y	V498Y	V502Y	V515Y		V516Y	V499Y
V503Y		V509Y	V519Y		V511Y	V520Y	V506Y
	V508Y	V381Y		V379Y	V560Y	V133Y	

FIGURE 17A

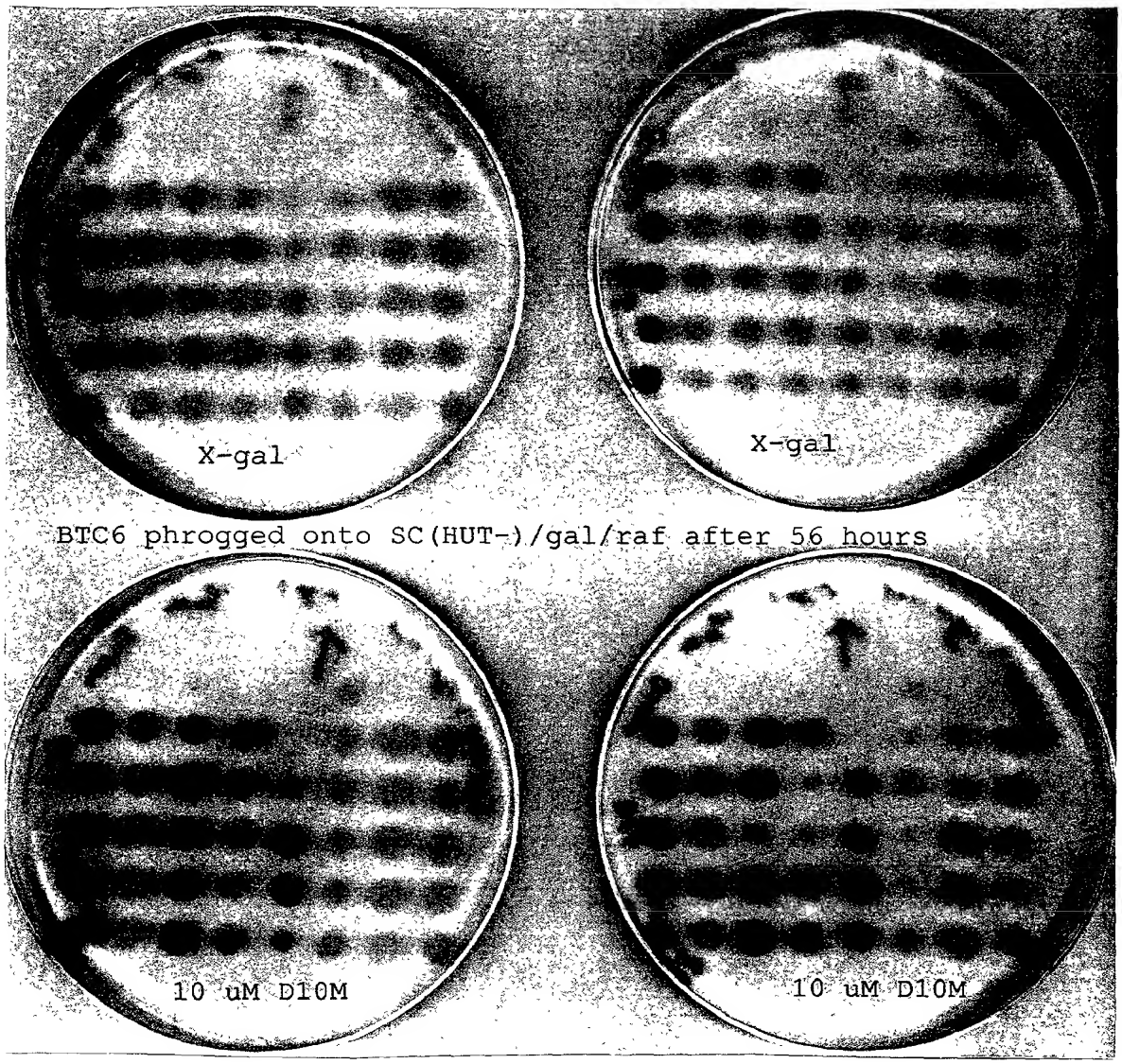
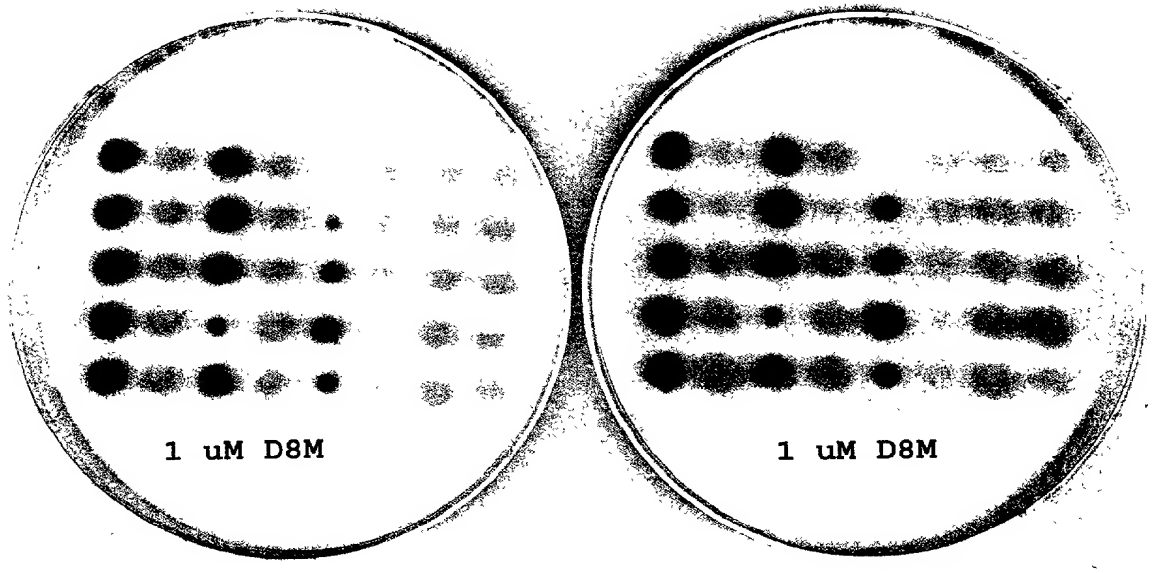


FIGURE 17B



BTC6 phrogged onto SC(HUT-)/gal/raf after 60 hours

FIGURE 17C

PLATE NAME: BTC6 **PURPOSE: DXM SCREENING**

V134Y	V381Y	V494Y	V504Y	V506Y	V512Y	V37Y	V560Y
V134Y	V381Y	V494Y	V504Y	V506Y	V512Y	V379Y	V560Y
V134Y	V381Y	V494Y	V504Y	V506Y	V512Y	V379Y	V560Y
V134Y	V381Y	V494Y	V504Y	V506Y	V512Y	V379Y	V560Y
V134Y	V381Y	V494Y	V504Y	V506Y	V512Y	V379Y	V560Y

FIGURE 18

B-galactosidase activity of V494Y using varying concentrations of D8M

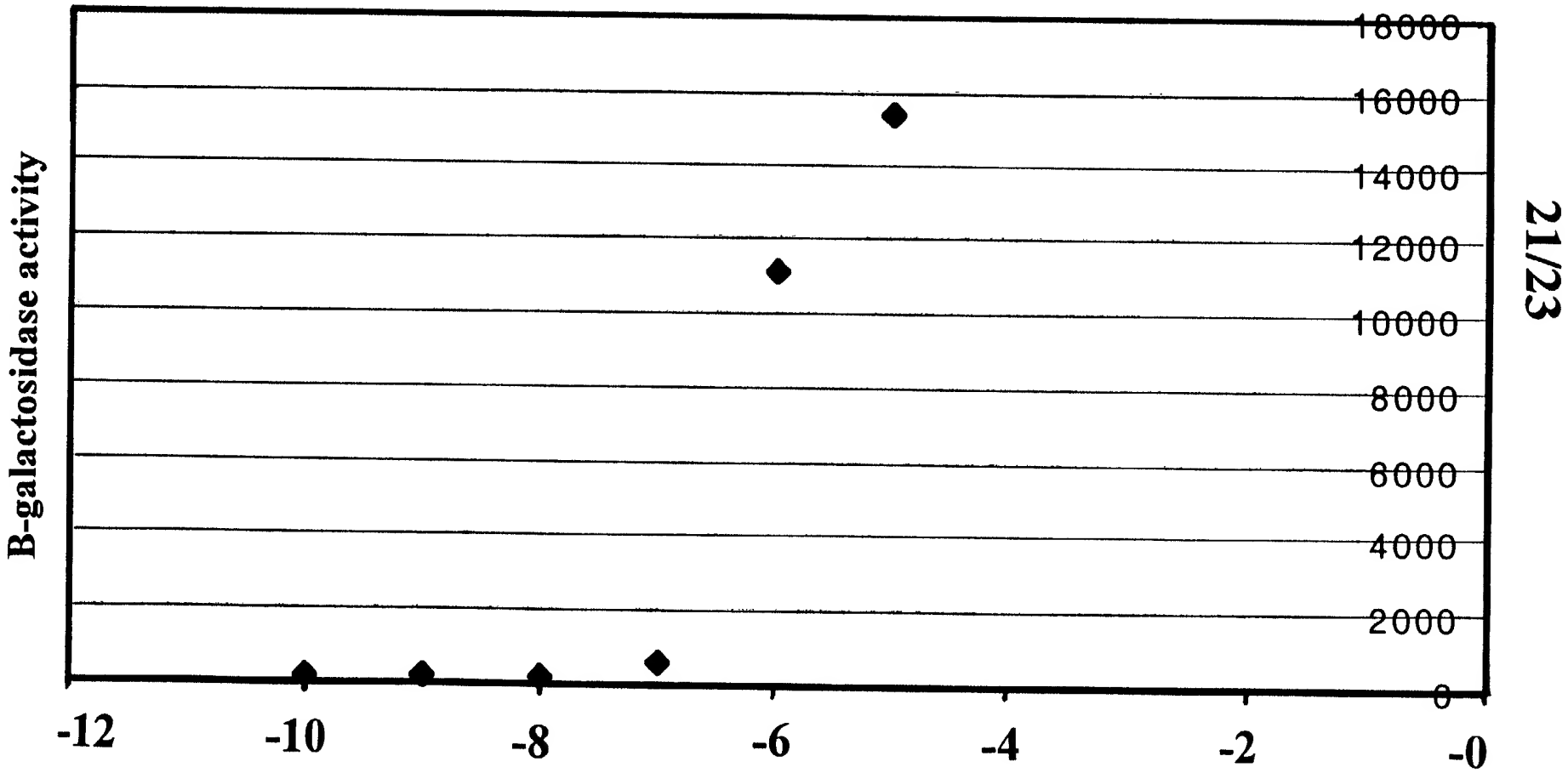


FIGURE 19

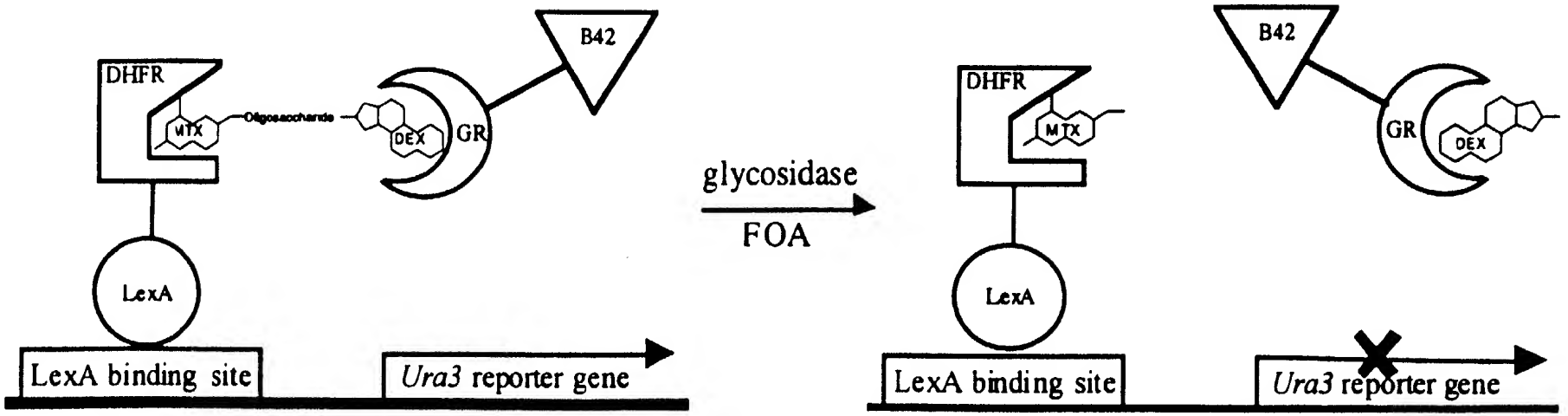
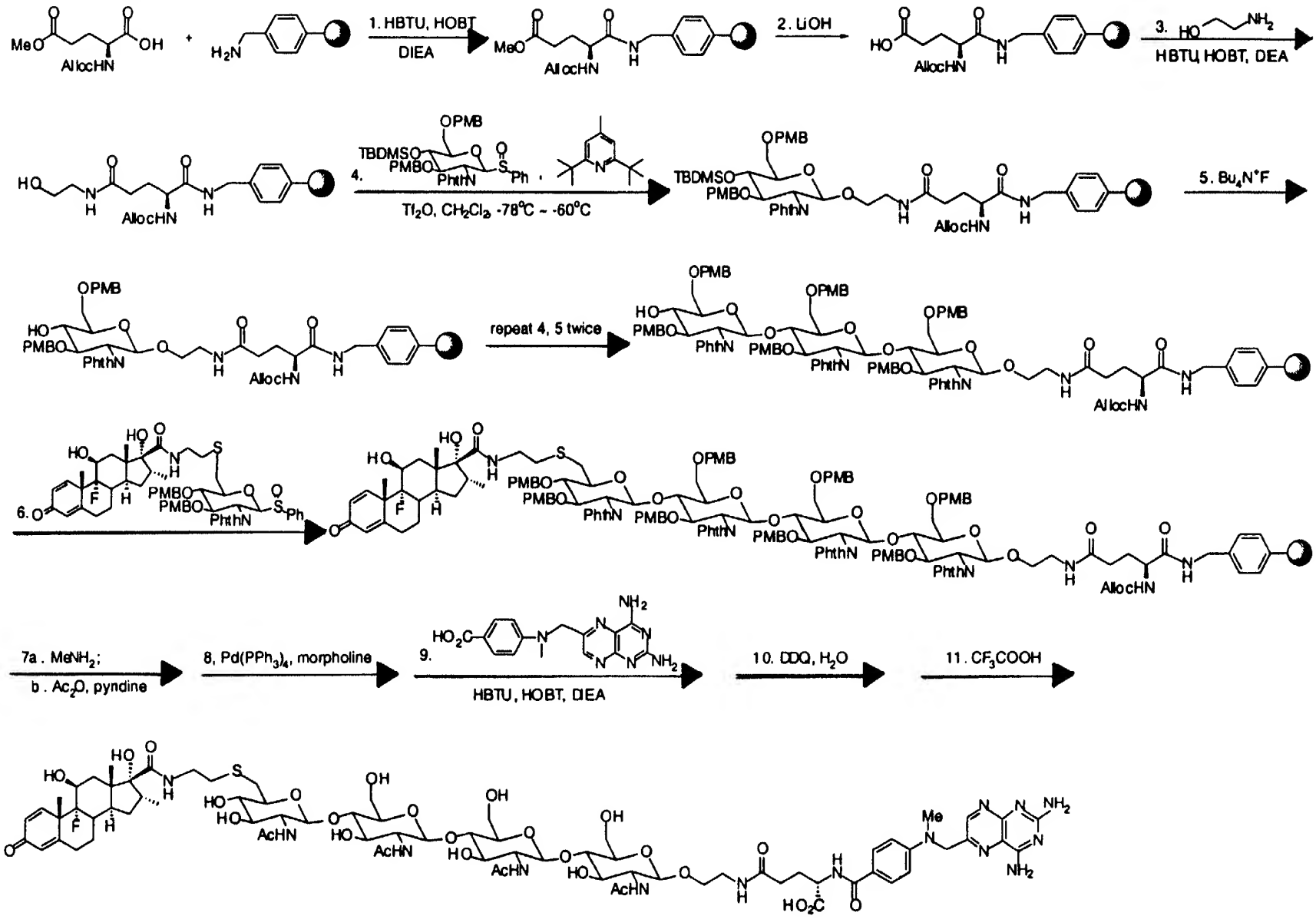


FIGURE 20


1. HBTU, HOBT
DIEA
2. LiOH
3.
HBTU, HOBT, DEA
4.
Tf2O, CH2Cl2, -78°C ~ -60°C
5. Bu4N+F
repeat 4, 5 twice
6.
7a. MeNH2;
b. Ac2O, pyridine
8. Pd(PPh3)4, morpholine
9.
HBTU, HOBT, DIEA
10. DDQ, H2O
11. CF3COOH
AllocHN
PMB
PMBO
PhthN
TBDMSO
AcHN